1. The ideal IBOC system would be compatible with existing analog AM broadcast stations. Unfortunately, the Ibiquity system is not compatible because it severely degrades adjacent stations as well as its own on-channel analog signal. Following are some of the problems with the Ibiquity system explained in more detail.

a. The Ibiquity system cuts the existing analog AM signal's bandwidth in half, which reduces the fidelity to not much better than a telephone line: Listeners hear a low-fidelity signal with the Ibiquity system.

b. The Ibiquity system transmits digital noise in the passband on both sides of the remaining analog signal, filling half of the channel with digital noise. This severely degrades the signal-to-noise ratio of the received signal, making the already low-fidelity signal sound noisy to the listeners.

c. The Ibiquity IBOC analog signal sounds even worse on high quality existing AM broadcast radio receivers because of their wider bandwidth.

d. Ibiquity's digital signal overlaps onto the adjacent channels on both sides, rendering them unusable.

2. Widespread use of the Ibiquity IBOC system would doom radio on the AM broadcast band because people won't listen to stations that sound bad. Instead of buying expensive digital radio receivers just to regain the sound quality sacrificed by using the Ibiquity system, most people will simply stop listening to the AM broadcast band. Therefore, the FCC should not allow continued use of the present Ibiquity IBOC system.

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